Submit original with signatures + 1 copy + electronic copy to Faculty Senate (Box 7500).

See http://www.uaf.edu/uafgov/faculty-senate/curriculum/course-degree-procedures-/ for a complete description of the rules governing curriculum & course changes.

	TRI	AL COURS	E OR	NEW CO	URSE PRO	POSAL			
BMITTED BY:									
Department	Veterinary Med	licine		Colle	ge/School		CNSM		
Prepared by	Cathy Griseto		• • • • • • • • • • • • • • • • • • • •	Phone			474-1928		
Email Contact	cagriseto@alasl	a.edu		Facul	ty Contac	Arleigh Reynolds, Assoc Dean Vet Med			
1. ACTION D	ESIRED (CHECK ONE):	Tria	l Cour	·se		New Co	ourse	X	
2. COURSE I	DENTIFICATION:	Dept	D,	VM	Course	637	No. Credi		3
Justify u division number of		'rofessional Pr	ogram r	equired eq	urse – see CSI	syllabus atta	sched		
3. PROPOSED	COURSE TITLE:				inary Bacteri				
1. To be CR	OSS LISTED?	NO	1	f yes,	<u> </u>	Course	#		
NOTE: Cros	YES/NO s-listing require form for addition	s approval	of bot d signa	Dept: th deparatures.	tments and	deans in	volved.	Add lin	es at
. To be STI	ACKED? YES/NO	NO	I	f yes, Dept.		Cou	rse #		
tacked cours by the Graduate and graduate different cou different (i. andergraduate the committee	at the appropri e applications as te Academic and A versions-will he rses. The committ e. is there under s being overtaxed a are looking out mittee has qualma	te reviewed dovising Co pemphasiz tees will degraduate and it; 3) are the i	by the mmitte e the etermical designation of the gradual eteres	e. Crea differe ne: 1) duate 1 te stud ts of t	ting two di nt qualitie whether the evel conter ents being he students	ifferent s s of what t two vers it being o undertaxe s taking t	yllabi-t are sur ions are ffered); d? In t he cours	ndergrad posed to suffic 2) are his cons	duate the two iently text, cally,
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(AY2013-14	& YEAR OF FIRS if approved by (2014-15)		3		Y2015-2016				
compressed in council. Fur Core Review (COURSE FOR (check all	hours may not be nto fewer than si thermore, any cor Committee. MAT: that apply)	x weeks mus	st be a	pproved	by the co	llege or s	school's	curricu approved	lum by the
OTHER FORM (specify)			.						
Mode of de (specify l field trip	ecture,	ecture					R	CEIV	ED
etc)	100 apr 100			· ######## · · · · · · · · · · · · · ·			AU	35 21	014

Dean's Office College of Natural Science & Mathematics

	9. CONTACT HOURS PER WEEK: 3 LECTURE 0 LAB hours /week hours /week Note: # of credits are based on contact hours. 800 minutes of lecture=1 credit. 2400 minutes of lab in a science course=1 credit. 1600 minutes in non-science lab=1 credit. 2400-4800 minutes of practicum=1 credit. 2400-8000 minutes of internship=1 credit. This must match with the syllabus. See http://www.uaf.edu/uafgev/faculty-senate/curriculum/course-degree-procedures-/guidelines-for-computing-/ for more information on number of credits.
	OTHER HOURS (specify type)
10	COMPLETE CATALOG DESCRIPTION including dept., number, title, credits, credit distribution, cross-listings and/or stacking (50 words or less if possible):
Eκ	emple of a complete description:
FI	SH F487 W, O Fisheries Management 3 Credits Offered Spring Theory and practice of fisheries management, with an emphasis on strategies utilized for the management of freshwater and marine fisheries. Prorequisites: COMM F131X or COMM F141X; ENGL F111X; ENGL F211X or ENGL F213X; ENGL F414; FISH F425; or permission of instructor. Cross-listed with NRM F487. (3+0)
	DVM 37 Department of Veterinary Medicine 3 Credit Offered Spring Veterinary Bacteriology & Mycology Be able to name the most likely agents causing infection in various body sites and indicate the relative importance of bacterial and fungal disease agents in veterinary medicine. Emphasis will be on the diseases of common domestic species of animals, as well as selected foreign animal diseases, zoonoses, and public health issues. Pre-requisites: Successful completion of first Semester Veterinary Courses
11.	Council to apply S or H classification appropriately; otherwise leave fields blank. H = Humanities S = Social Sciences Will this course be used to fulfill a requirement YES: NO: x
	for the baccalaureate core? If YES, attach form. IF YES, check which core requirements it could be used to fulfill: O = Oral Intensive,
11.	A Is course content related to northern, arctic or circumpolar studies? If yes, a "snowflake" symbol will be added in the printed Catalog, and flagged in Banner. YES NO X
12	COURSE REPEATABILITY: Is this course repeatable for YES NO X credit?
	Justification: Indicate why the course can be repeated (for example, the course follows a different theme each time).
	How many times may the course be repeated for credit?
	If the course can be repeated for credit, what is the maximum number of credit hours that may be earned for this course?
	If the course can be repeated with <u>variable</u> credit, what is the maximum number of credit hours that may be earned for this course?
13	GRADING SYSTEM: Specify only one. Note: Changing the grading system for a course later on constitutes a Major Course Change - Format 2 form. LETTER: X PASS/FAIL:

RESTRICTIONS ON ENROLLMENT (IT any)				
14. PREREQUISITES Acceptance in Professional Veterinary Medical Program or permission of instructor				
These will be required before the student is allowed to enroll in the course.				
15. SPECIAL RESTRICTIONS, Professional Veterinary Medical program student or permission of				
CONDITIONS instructor				
16. PROPOSED COURSE FEES TBD				
Has a memo been submitted through your dean to the Provost for fee Yes				
approval?				
Yes/No				
17. PREVIOUS HISTORY				
Has the course been offered as special topics or trial course No				
previously? Yes/No				
T GS/TYO				
If yes, give semester, year,				
course #, etc.:				
18. ESTIMATED IMPACT				
WHAT IMPACT, IF ANY, WILL THIS HAVE ON BUDGET, FACILITIES/SPACE, FACULTY, ETC.				
Professional Program approved by BOR, Chancellor and Provost - Impact on Animal Resource Center				
in year one depending upon renovation completion.				
19. LIBRARY COLLECTIONS				
Have you contacted the library collection development officer (kljensen@alaska.edu,				
474-6695) with regard to the adequacy of library/media collections, equipment, and				
services available for the proposed course? If so, give date of contact and resolution. If not, explain why not.				
No X Yes Department will keep complete library of required course				
materials in AHRB office				
20. IMPACTS ON PROGRAMS/DEPTS				
What programs/departments will be affected by this proposed action? Include information on the Programs/Departments contacted (e.g., email, memo)				
Impact on Animal Resource Center facility in year on due to renovation completion. ARC contacted and				
approved (jeblake@alaska.edu)				
21. POSITIVE AND NEGATIVE IMPACTS				
Please specify positive and negative impacts on other courses, programs and				
departments resulting from the proposed action.				
Biology & Wildlife, Chemistry or SNRE students may request admission to course for research or				
professional development. Vet Med will be providing curriculum in biomedical sciences which was not available previously.				
aranasis pro-lousiy.				
JUSTIFICATION FOR ACTION REQUESTED				
The purpose of the department and campus-wide curriculum committees is to				

The purpose of the department and campus-wide curriculum committees is to scrutinize course change and new course applications to make sure that the quality of UAF education is not lowered as a result of the proposed change. Please address this in your response. This section needs to be self-explanatory. Use as much space as needed to fully justify the proposed course.

The course is required for first year veterinary students and the syllabus is provided by CSU CVMBS. The course has been approved by their accreditation requirements and will be offered at UAF as part of the 2+2 program (first two years at UAF and last two years at CSU).

<u> </u>	110/1
Signature, Chair,	MIL Date 7/7/14
Program/Department	Veterinary Medicine
	Date 10-2-14
Signature Chair, Co.	ollege/School CNSM
Curriculum Council f	
Tanlul	bun / Date /0/3/14
Signature, Dean, Col	
of:	
	level of approved programs must be approved in advance
the Provost.	

	Date
	(if above level of approved
programs)	
LL SIGNATURES MUST B	BE OBTAINED PRIOR TO SUBMISSION TO THE GOVERNANCE OFFIC
	Date
Signature, Chair	Date
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DVM 637 Veterinary Bacteriology and Mycology

SYLLABUS - SPRING

Department of Veterinary Medicine, University of Alaska Fairbanks

1. Course Information:

Title:

Veterinary Bacteriology and Mycology

Number:

637

Credit:

Prerequisites:

Successful completion of first semester of veterinary courses

Location:

Meeting time:

Three times a week for one hour lectures exact time TBD

2. Instructor Contact Information:

Name:

Dr. Karsten Hueffer

Office Location: Arctic Health Research Building 2W02

Office Hours: Office Phone:

By appointment 907-474-6313

Email:

khueffer@alaska.edu

Email is the best way to reach the instructor. You should receive a response to your email within 24 hours when it is received. If you do not receive a reply within this time frame, assume that the email was not received and please resend your message.

3. Course Reading/Materials:

Textbook Title:

Veterinary Microbiology and Microbial Disease

Editors:

P. J. Quinn, B. K. Markey, F. C. Leonard, P. Hartigan, S.

Fanning, E. S. FitzPatrick

Edition:

2th Edition

Publisher:

Wiley Blackwell Scientific Ltd.

ISBN:

978-1-4051-5823-7

4. Course Description:

The course will include an introduction to veterinary bacteriology and mycology in which the basics of bacterial structure, differences between bacterial families and their pathogenesis will be discussed. A general explanation of microbe mediated damage at the cellular and tissue level and the basic principles of pathogenesis will be presented. Host response to bacterial or fungal infection, innate and acquired immunity, and the role of vaccines in disease prevention will be explained. Each important bacterial family and major microbial diseases will be discussed.

5. Course Goals:

To present the basics of veterinary bacteriology & mycology and the characteristics of each family of bacteria or fungi; how different microbes interact with their respective hosts at molecular, cellular, organismal and population levels in causing disease; clinical diseases and pathologic lesions associated with major microbial diseases with emphasis on practical considerations related to accurate diagnosis, prevention and management of those diseases.

6. Student Learning Outcomes:

Students will be able to:

- name the most likely agents causing infection in various body sites and indicate the relative importance of bacterial and fungal disease agents in veterinary medicine. Emphasis will be on the diseases of common domestic species of animals, as well as selected foreign animal diseases, zoonoses, and public health issue.
- 2. prepare laboratory requests and documentation in medical records using common and scientific names of the more significant disease agents (bacteria and fungi) and the associated diseases.
- 3. list most likely pathogens causing various diseases by applying knowledge of virulence factors and pathogenesis of infectious diseases.
- 4. recognize the unique identifying characteristics of bacterial and fungal agents observed in clinical materials and name the associated agent(s).
- 5. identify the reservoirs, mode of transmission, host- and tissue-specificity by applying knowledge of the biological complexities of microbial ecology and host-pathogen relationships.
- 6. devise strategies for prevention, control, and vaccination based on microbial ecology and host-pathogen relationships to prevent microbial disease.
- 7. select appropriate (selection-of-choice) antimicrobial agents for treating specific infections through the knowledge acquired regarding mechanisms of action and spectrum of activity of the major classes of antibacterial and antifungal drugs, and predicted susceptibilities of specific agents.

7. Instructional Methods:

Lectures

The lectures will emphasize selected aspects of microbiology (biology of agents) that are applicable to the practice of veterinary medicine. Lectures are intended to provide illustration, clarification, and updating of information. My philosophy of lecturing is that it is a coaching session to help you understand which information is most important and how to use it. But, the lecture is NOT meant to be the transfer of the exact body of knowledge that is useful in the practice of veterinary medicine. There is far more to learn than I can recite in our limited time together.

Textbooks

There are many reference books that you may find helpful as a supplement to the lectures. A wide variety of general, allied health, and health professions microbiology textbooks are available in the library. Various veterinary medical textbooks have large sections devoted to infectious diseases. Within these discussions of disease, the ecology, pathogenic mechanisms and other characteristics of the agents are frequently reviewed.

8. Course Calendar:

For details, refer to the section "Tentative Lecture Schedule" in the end of this syllabus.

9. Course Policies:

- Attendance:
 - Students are expected to attend all classes.
- Classroom Behavior:

Any type of behavior in the classroom that is disruptive, distracting, or disrespectful to the instructor or to your fellow students will not be tolerated and will result in dismissal from the classroom. This includes, but is not limited to, disrespectful comments, the use of tobacco products, consumption of food, use of cell phones or wireless devices, or use of any type of communicative device. All cell phones or other such devices must be turned off while in the classroom. Do not browse the Internet, text message or IM while in the classroom.

Plagiarism:

Plagiarism is the overt or covert use of other people's work or ideas without acknowledgement of the source. This includes using ideas or data from a classmate or colleague without permission and acknowledgement, including sentences from journal articles in your writing without citing the author, or copying parts of a website into your essay. Plagiarism and cheating are serious offenses that violate the student code of conduct which may result in an "F" in the course and/or referral to the university disciplinary committee.

10. Evaluation:

Examinations, Assignments, and Grading:

Student performance will be evaluated by examinations and homework assignments. The total available points in the course is planned to be approximately 350 points, distributed in two hourly examinations (each worth 75 points), a final exam (75 points new material and 50 points comprehensive), and 15 homework assignments (each worth 5 points). The examinations will contain a variety of question styles, including multiple choice, short answer, and discussion questions. Names of microbes must be spelled correctly and rules of nomenclature observed (underline, capitalize genus, and use genus name with species) for full credit.

The homework assignments are on the web where DVM 637 should already be listed as one of your courses on-line homepage. Each assignment has a deadline for completion, must be submitted on line, and the first submission will be the one that is

graded. These assignments may be discussed and worked on in small groups, but each individual must logon and submit answers to receive credit.

Examinations and course assignments must be completed as scheduled. Rescheduling will be allowed only for serious, unavoidable circumstances (not for voluntary choices). Absence from an examination or assignment must be excused in advance by the course coordinator or Department Office per Department Attendance Policy and requires completing the excused absence form. If an examination or assignment is not completed as scheduled and the absence is not excused, zero (0) points will be assigned.

Grades for the course will be assigned as follows:

Α+	99 – 100%
Α	93 – 98%
Α-	90 – 92%
B+	87 – 89%
В	83 – 86%
B-	80 – 82%
C+	77 – 79%
С	70 – 76%
D	65 – 69%
F	< 65%

11. Support Services:

If you require more assistance than can be provided in class, and office hours, you may want to contact Student Support Services (http://www.uaf.edu/sssp/) or the Department of Veterinary Medicine for assistance.

12. Disability Services:

All students, including those with disabilities, are welcome in this course, and we are committed to providing equal access to this course for all students. If you have a disability (including learning disabilities) please inform us during the first week of class so that we can accommodate your specific needs. If you have not already done so, you will also need to contact UAF's Office of Disabilities Services (474-7043). Everyone should have the opportunity to participate fully in the course and to complete assignments and exams to the best of their ability. If accommodations are needed to enable you to do so, we will gladly work with you to provide them.

Tentative	Lecture	Schedule
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Week	<u>Topic_(approximate schedule)</u>
Week 1 1/14-1/20	Introduction: Bacterial Structure & Pathogenesis of bacterial infections
Week 2 1/21-1/27	Microbiota & biotics Genetics, Antimicrobial Resistance Antimicrobials
Week 3 1/28-2/3	Streptococcus Streptococcus cont., Staphylococcus Staphylococcus cont., Rhodococcus
Week 4 2/4-2/10	Corynebacterium, Trueperella Listeria, Erysipelothrix, Actinomycetes
Week 5 2/11-2/17	Bacillus Clostridium Clostridium cont.
Week 6 2/18-2/24	Non-spore forming anaerobes Exam 1 Enterobacteriaceae, <i>E. coli</i>
Week 7 2/25-3/2	E. coli, Klebsiella, Proteus Salmonella, Endotoxin, Sepsis Yersinia
Week 8 3/3-3/11	Pseudomonas, Burkholderia, Aeromonas, Bordetella Mannheimia, Pasteurella,
Week 9 3/21-3/25	Actinobacillus, Histophilus Brucella Brucella cont., Taylorella
Week 10 3/28-4/1	Campylobacter, Helicobacter Leptospira Brachyspira, Borrelia
Week 11 4/4-4/8	<i>Francisella, Moraxella</i> Exam 2 <i>Bartonella</i> , misc. bacteria
Week 12 4/11-4/15	Mycobacterium Mycoplasma (Haemobartonella, Eperythrozoon) Rickettsia, Anaplasma

Week 13 4/18-4/22

Ehrlichia, Coxiella

Chlamydia and Chlamydophila Fungal Structure & Function

Yeast

Dermatophytes Dimorphic Fungi

Week 14 4/25-4/29

Miscellaneous Fungi: Aspergillus, Pneumocystis,

Mycotoxin production

Antifungal drugs, Protheca, Pythium, Rhinosporidium

Disinfectants, Course conclusion

Week 15 5/2-5/6

Examination III / Comprehensive exam as

scheduled by University